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UNITED STATES MARITIME COMMISSION

Extension Courses

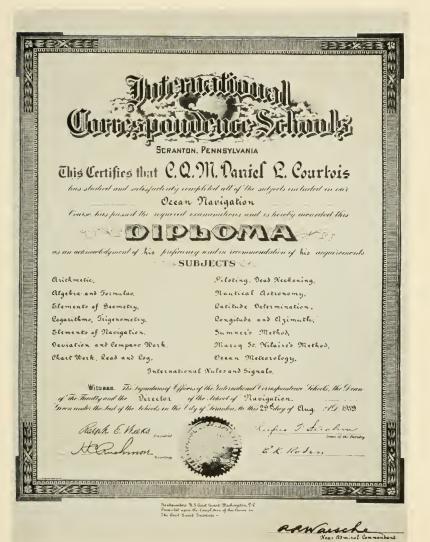
FOR

PERSONNEL OF THE AMERICAN MERCHANT MARINE

OCTOBER 1939







Diploma issued by Coast Guard Institute



ESTABLISHMENT OF EXTENSION COURSES

Extension courses are offered to personnel of the American Merchant Marine by the United States Maritime Commission in accordance with a statute which provides:

The Commission is hereby authorized to prescribe, conduct, and supervise such extension and correspondence courses as it may deem necessary to supplement other training facilities, and to make such courses available, under such rules and regulations and upon such terms as it may prescribe, to the licensed and unlicensed personnel of the merchant marine, and to cadets and cadet officers who shall make application therefor.

WHO IS ELIGIBLE

The extension courses are offered to seamen of occangoing and Great Lakes vessels who are active in their calling. A minimum of 12 months' service on seagoing or Great Lakes vessels over 500 gross tons during the 3 years immediately preceding the date of application is required. Both licensed and unlicensed seamen may apply for enrollment. In order to determine that applicants have the necessary educational qualifications to undertake the courses for which they apply, each application must be endorsed by the master, chief engineer, or chief purser of a vessel on which the applicant has served. Enrollees who fail to submit a reasonable number of lessons for review or who fail to continue their calling as seamen may be disenrolled.

CADET OFFICERS AND CADETS

Cadet officers and cadets should apply for extension courses to the Supervisor of Cadet Training. Required courses are prescribed by the regulations for cadet officers and cadets.

HOW TO APPLY

An application should be submitted on the form provided by the Maritime Commission. Forms may be obtained in the principal seaports at the offices of the Maritime Commission, Coast Guard, and shipping commissioners. The applicant should fill out the form, have it endorsed by the master, chief engineer, or chief purser of a vessel on which he has served, and forward it to the United States Maritime Service, Washington, D. C.

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COURSES AVAILABLE

The Maritime Commission has arranged for the Coast Guard Institute at New London, Conn.; to administer the extension courses offered to seamen. Most of these are the regular correspondence courses published by the International Correspondence Schools of Scranton, Pa. The papers submitted by students will be reviewed and graded by Coast Guard personnel who have qualified for such duty according to the standards of the International Correspondence Schools. In addition, courses of special interest to seamen, not included in the International Correspondence Schools list, will be made available through the Coast Guard Institute. An appropriate diploma will be issued to each student completing a course satisfactorily. Unless otherwise noted, courses listed in this pamphlet refer to those issued by the International Correspondence Schools.

COST TO STUDENTS

The only cost to students will be for payment of pamphlets issued by the Coast Guard Institute and for necessary postage. Each application for enrollment must be accompanied by a money order covering the total cost of pamphlets for the course desired as indicated below. This money order should be made payable to the Treasurer of the United States. Pamphlets become the property of the student. No refund will be made on account of the failure of a student to complete a course, but all pamphlets paid for will be issued upon request. The cost of administration and salaries of instructors will be borne by the Maritime Commission, and students will pay only for study material which becomes their property.

INFORMATION AND APPLICATIONS

Seamen who desire to take advantage of the courses offered by the Maritime Commission or who require further information should address—

U. S. Maritime Service, Washington, D. C.

LIST OF CORRESPONDENCE COURSES AVAILABLE

КДВ	MOTORBOAT NAVIGATION		KDB
No.	Title	Lessons	Price
1464 1465-A 1465-B 1466-A 1466-B 1467-A 1467-B 1468-A 1468-B 5272	Nautical Terms Motorboats do. Marine Gasoline Engines do Management of Marine Gasoline Engines do Motorboat Navigation do Motorboat Rules and Signals Final examination	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Total	11	\$4. 2

Vo.	Title	Lessons	Price
1975	Elements of Arithmetic	1	
1976	Fractions	1	
1977	Decimals	1	
1978	Decimals Weights and Measures Ratio and Proportion Powers and Roots Formulas Flowners of Complex	1	
1979 1980	Powers and Roots	1	
1982	Formulas	1	
906	Elements of Geometry Elements of Navigation Introduction to Ship Drafting (for reference only)	1	
904	Elements of Navigation	1	
5289	Introduction to Ship Drafting (for reference only)		
085-A		1	
085-B 5362	do Chart, Lead, and Log Useful Tables (Bowditch) (uo lesson) Piloting Logarithms	1	
BV	Useful Tables (Rowditch) (no lesson)	1	
5363	Piloting	1	
5254	Logarithms	1	
1154	Trigonometry	1	
157-A 157-B	Trigonometry Dead Reckoning	1	
157-B	do do Abridged Nautical Almanac (for reference only)	Ţ	
2635	Abridged Nautical Almanac (for reference only)		
630-A 630-B	Nautical Astronomy	1	
2631	do Latitude	1	
2632	Longitude and Azimuth	i	
2633	Sumner's Method	1	
634-A 634-B	Summer's Method Marcq. St. Ililaire's Method	1	
634-B	do	1	
2637	Ocean Meteorology	1	
2643	International Rules and Signals	1	
2642	Stowage of Cargo	1	
	Ocean Meteorology International Rules and Signals Stowage of Cargo Final examination	1	
	Total	28	\$12.
BV	SHORT MARINE ENGINEER'S COURSE	oma]	HBV
	[International Correspondence Schools certificate issued in lieu of a dipl	1	HBV
1975	[International Correspondence Schools certificate issued in lieu of a diplements of Arithmetic	1	HBV
1975 1976	[International Correspondence Schools certificate issued in lieu of a diplements of Arithmetic	1 1	HBV
1975 1976 1977	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic Fractions. Decimals.	1	HBV
1975 1976 1977 1978	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic Fractions. Decimals.	1 1 1	HBV
1975 1976 1977	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic Fractions. Decimals.	1 1 1	HBV
1975 1976 1977 1978 1979	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic Fractions. Decimals. Weights and Measures. Ratio and Proportion Powers and Roots. Mensuration	1 1 1	HBV
1975 1976 1977 1978 1979 1980 1981 1982	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic Fractions. Decimals. Weights and Measures. Ratio and Proportion Powers and Roots. Mensuration	1 1 1	HBV
1975 1976 1977 1978 1979 1980 1981 1982 965-A	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion Powers and Roots. Mensuration. Formulas. Mechanical Principles	1 1 1	HBV
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion Powers and Roots. Mensuration. Formulas. Mechanical Principles	1 1 1	HBV
1975 1976 1977 1978 1979 1980 1981 1981 1982 965-A 965-B 2877	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do	1 1 1	HBV
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do	1 1 1	HBV
1975 1976 1977 1978 1979 1980 1981 1981 1982 965-A 965-B 2877	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion Powers and Roots. Mensuration. Formulas Mechanical Principlesdo. Heat. Steam. (Accompanied by Keenan's Steam Tables). Types of Marine Boilers	1 1 1 1 1 1 1 1 1 1 1 1 1	HBV
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 2878	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion Powers and Roots. Mensuration. Formulas Mechanical Principlesdo. Heat. Steam. (Accompanied by Keenan's Steam Tables). Types of Marine Boilers	1 1 1	HBV
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 2878	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic. Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots. Mensuration Formulas Mechanical Principles do Heat Steam. (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HBV
1975 1976 1977 1978 1979 1980 1981 1982 965-B 2877 2878 2850 8851-B 2836	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic. Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots. Mensuration Formulas Mechanical Principles do Heat Steam. (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional)	1 1 1 1 1 1 1 1 1 1 1 1 1	HBV
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 2878 2851-A 851-B 851-B 852-A	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic. Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots. Mensuration Formulas Mechanical Principles do Heat Steam. (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings. Morine Roiler Accompanies	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	нву
1975 1976 1977 1978 1979 1980 1981 1981 1985 1965-A 965-B 2877 2878 2851-A 851-B 2836 851-A 852-A	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic. Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots. Mensuration Formulas Mechanical Principles do Heat Steam. (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings. Morine Roiler Accompanies	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HBV
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 2878 2851-A 851-A 851-A 851-A 851-A 851-A 851-A 2836	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic. Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots. Mensuration Formulas Mechanical Principles do Heat Steam. (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings. Morine Roiler Accompanies	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HBV
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 2878 2851-A 851-B 2836 852-A 852-A 852-A 965-B 2836 2843 2843	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic. Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots. Mensuration Formulas Mechanical Principles do Heat Steam. (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings. Morine Roiler Accompanies	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ПВУ
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 2878 2851-A 851-B 2836 852-A 852-A 852-A 965-B 2836 2843 2843	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic. Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots. Mensuration Formulas Mechanical Principles do Heat Steam. (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings. Morine Roiler Accompanies	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IIBV
1975 1976 1977 1978 1979 1980 1981 1985 1965-A 965-B 2877 2878 2851-A 851-A 851-A 851-A 851-A 2853 2853 2853 2853 2853	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic Fractions. Decimals. Weights and Measures Ratio and Proportion Powers and Roots. Mensuration Formulas Mechanical Principles	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IIBV
1975 1976 1977 1978 1979 1980 1981 1982 965-B 965-B 9851-A 8851-B 2878 2851-B 2852-A 8852-A 8852-A 8855-A 8855-B 2853	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings Marine Boiler Accessories do Tuels and Combustion Elements of Oil Burning Oil Burning Under Marine Boilers Marine Boiler Feeding do Marine Boiler Feeding do Marine Boiler Feeding do Marine Boiler Feeding do Marine Engine Mechanism	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IIBV
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 2878 2851-B 2851-B 2851-B 2852-A 2852-B 2853 2843 2855-B 2855-B 2855-B 2855-B 2855-B 2855-B 2855-B	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic Fractions. Decimals. Weights and Measures. Ratio and Proportion Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Steam. (Accompanied by Keenan's Steam Tables) Types of Marine Boilers. Marine Boiler Details (optional) do Pipes and Pipe Fittings. Marine Boiler Accessories. do. Tels and Combustion Elements of Oil Burning Oil Burning Under Marine Boilers. Marine Boiler Feeding. do Marine Boiler Feeding. do Marine Engine Mechanism	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IIBV
1975 1976 1977 1978 1980 1981 1982 965-A 965-B 2877 2878 851-A 851-B 2836 851-A 855-A 855-A 855-A 8855-A 8855-A 8855-A	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic Fractions. Decimals. Weights and Measures. Ratio and Proportion Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Steam. (Accompanied by Keenan's Steam Tables) Types of Marine Boilers. Marine Boiler Details (optional) do Pipes and Pipe Fittings. Marine Boiler Accessories. do. Tels and Combustion Elements of Oil Burning Oil Burning Under Marine Boilers. Marine Boiler Feeding. do Marine Boiler Feeding. do Marine Engine Mechanism	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HBV
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1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 2878 2851-A 851-B 2836 851-A 852-A 8552-B 2853 2843 2855-A 8555-B 8255-A 8653-	Elements of Arithmetic Fractions. Decimals. Weights and Measures Ratio and Proportion Powers and Roots. Mensuration Formulas Mechanical Principles do do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Petails (optional) do Pipes and Pipe Fittings Marine Boiler Accessories do Joil Burning Under Marine Boilers Marine Boiler Feeding do Marine Engine Mechanism Marine Slide-Valve Gears do Multiple-Expansion Marine Engines Condensers	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HBV
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 2878 2851-B 2851-B 2851-B 2855-A 2855-B 285-B 2	Elements of Arithmetic Fractions. Decimals. Weights and Measures Ratio and Proportion Powers and Roots. Mensuration Formulas Mechanical Principles do do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings Marine Boiler Accessories do Oil Burning Under Marine Boilers Marine Boiler Feeding do Marine Engine Mechanism Marine Slide-Valve Gears do Multiple-Expansion Marine Engines Condensers Marine Pumps	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HBV
1975 1976 1977 1978 1980 1981 1982 965-B 965-B 9851-A 2877 2878 2851-B 2236 2852-B 2853 2843 2253 2854 2855-A 28563-B 2863-B 2863-B 2864 2866-B 2876 2876	Elements of Arithmetic Fractions. Decimals. Weights and Measures Ratio and Proportion Powers and Roots. Mensuration Formulas Mechanical Principles do do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings Marine Boiler Accessories do Oil Burning Under Marine Boilers Marine Boiler Feeding do Marine Engine Mechanism Marine Slide-Valve Gears do Multiple-Expansion Marine Engines Condensers Marine Pumps	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HBV
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 2878 2851-B 2851-B 2851-B 2855-A 2855-B 2855-B 2855-B 2855-B 2855-B 2855-B 2855-B 2855-B 2855-B 2855-B 2863-B 2864-B 2864-B 2864-B 2865-B 2865-B 2863-B 2863-B 2863-B 2863-B 2863-B 2864-B 2864-B 2865-B 2865-B 2865-B 2865-B 2865-B 2863-B 2863-B 2863-B 2863-B 2863-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2865-B 2864-B 286	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots. Mensuration. Formulas Mechanical Principles do do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings Marine Boiler Accessories do Pipes and Combustion Elements of Oil Burning Under Marine Boiler Combustion Elements of Oil Burning Under Marine Boiler Marine Boiler Feeding do Marine Engine Mechanism Marine Engine Mechanism Marine Eliments of Multiple-Expansion Marine Engines Condensers Marine Pumps do Marine Lubrication Steam Turbines Mechanism Steam Turbines Steam Tarbines Mechanism Marine Lubrication Steam Turbines Steam		IIBV
1975 1976 1977 1978 1980 1981 1982 965-B 965-B 985-A 851-B 2876 851-B 2836 851-A 855-B 2843 2854 2855-A 8855-B 8855-B 2863-B 2863-B 2864 2869-B 2869-A 2869-A 2869-A 2873 2315 2873	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings Marine Boiler Accessories do Joil Burning Under Marine Boilers Marine Boiler Feeding do Multiple-Expansion Marine Engines Condensers Marine Blide-Valve Gears do Multiple-Expansion Marine Engines Condensers Marine Pumps do Marine Lubrication Steam Turbines Principles of the Steam Turbine		IIBV
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 2878 2851-B 2851-B 2851-B 2855-A 2855-B 2855-B 2855-B 2855-B 2855-B 2855-B 2855-B 2855-B 2855-B 2855-B 2863-B 2864-B 2864-B 2864-B 2865-B 2865-B 2863-B 2863-B 2863-B 2863-B 2863-B 2864-B 2864-B 2865-B 2865-B 2865-B 2865-B 2865-B 2863-B 2863-B 2863-B 2863-B 2863-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2864-B 2865-B 2864-B 286	[International Correspondence Schools certificate issued in lieu of a diple Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers (Optional) do Pipes and Pipe Pittings Marine Boiler Accessories do Pruels and Combustion Elements of Oil Burning Oil Burning Under Marine Boilers Marine Boiler Accessories do Marine Engine Mechanism Marine Engine Mechanism Marine Engine Mechanism Marine Engine Mechanism Marine Slide-Valve Gears do Marine Engine Mechanism Marine Slide-Valve Gears Marine Slide-Valve Gears Marine Slide-Valve Gears Marine Steam Turbines Principles of the Steam Turbines Principles of the Steam Turbine Marine Steam Turbines		IIBV
1975 1976 1977 1978 1980 1981 1982 965-B 965-B 985-A 851-B 2876 851-B 2836 851-A 855-B 2843 2854 2855-A 8855-B 8855-B 2863-B 2863-B 2864 2869-B 2869-A 2869-A 2869-A 2873 2315 2873	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas Mechanical Principles do Heat Steam (Accompanied by Keenan's Steam Tables) Types of Marine Boilers Marine Boiler Details (optional) do Pipes and Pipe Fittings Marine Boiler Accessories do Joil Burning Under Marine Boilers Marine Boiler Feeding do Multiple-Expansion Marine Engines Condensers Marine Blide-Valve Gears do Multiple-Expansion Marine Engines Condensers Marine Pumps do Marine Lubrication Steam Turbines Principles of the Steam Turbine		HBV

No.	Title	Lessons	Pr
1975	Elements of Arithmetic	1	
1976	Fractions		
1977	Procupils	1	
1978	Decimals Weights and Massacra	1	
1978	Weights and Measures	1	
1979	Ratio and Proportion	1	
	Powers and Roots	1	
1981	Mensuration. Formulas. Cube Root Mechanical Principlesdo. Strength of Materials. Heat. Steen	1	
1982	Formulas	1	
1983	Cube Root	1	
1965-A	Mechanical Principles	1	
1965-B	do	1	
2160	Strength of Materials	1	
2877	Heat	1	
2878	Steam	í	
	Steam (Accompanied by Keenan's Steam Tables)	1	
2850	TVDes of Alarine Rollers	1	
2851-A	Marine Boiler Detailsdo Marine Boiler Accessories	i	
2851-B	do	1	
2852-A	Marina Roilar Agassories		
2852-B	do	1	
2853	do	1	
2843	Fuels and Combustion	1	
2854	Elements of Oil Burning Oil Burning Under Marine Boilers Pulverized Coal Burning	1	
	Oil Burning Under Marine Boilers	1	
2431-A	Pulverized Coal Burning.	1	j
2431-B		1	
2855-A	Marine Boiler Feeding	1	
2855-B	Q0	1	
2856	Marine Boiler Management	1	
2857	Marine Boiler Repairs	1	
5262	Marine Boiler Specifications	1	
5263	Marine Boiler Inspection	1	
2859	Marine Engine Mechanism	î	
2861	Indicating Steam Engines	î	
2862	Engine Testing	í	
2863-A	Marine Slide-Valve Gears	î	
2863-B	do	1	
2864	Multiple-Expansion Marine Engines	1	
2865	Condensers	1	
2866-A	Marine Engine Management	1	
2866-B	do	1	
2867	Marina Pagina Danaina	1	
2315	Marine Engine Repairs Steam Turbines Principles of the Steam Turbine	1	
	steam ruromes	1	
2871	Principles of the Steam Turbine	1	
2872	Marine Steam Turbines.	1	
2868	Marine Deck Machinery	1	
2869-A	Marine Pumps	1	
2869-B	Marine Steam Turbines Marine Deck Machinery Marine Demps	1	
2870	Propulsion of Vessels	1	
2873	Propulsion of Vessels Marine Lubrication Principles of Marine Refrigeration	1	
2886	Principles of Marine Refrigeration	1	
2887	Marine Ammonia Refrigeration Apparatus	1	
2888	Marine Applications of Refrigeration	1	
2889	Marine Ammonia Refrigeration Apparatus Marine Applications of Refrigeration Management of Marine Refrigeration Machinery	î	
2700-A	Electricity and Magnetism	i	
2700-B	do	î	
2716	Theory and Construction of Direct-Current Motors and Generators	1	
2715	Theory and Construction of Direct-Current Motors and Generators Characteristics of DC. Motors and Generators	1	
2367	Alternating-Current Generators, Transformers, and Motors	1	
2369	Electrical Measuring Devices	1	
2239	Electrical Measuring Devices Elements of Blueprint Reading (optional) Reading Shop Blueprints (optional)		
2240-A	Panding Shop Plumprints (aptional)	1	
2240-A 2240-B	reading Shop Bideprints (optional)	1	
224U-B	do	1	
2240-C	do	1	
2240-D	do	1	
2249	Machine Sketching (optional) Final examination	1	
	Final examination	1	
			_
	Total	65	\$2

INTERNAL-COMBUSTION ENGINES

MRU

No.	Title	Lessons	Price
10=-	D		
1975 1976	Elements of Arithmetic	1	
1976 1977	Fractions Decimals Weights and Measures	î	
1978 1979	Weights and Measures	1	
1979	Weignts and Measures. Ratio and Proportion Powers and Roots. Mensuration. Formulas. The Slide Pule (antique)	1	
1981	Mensuration	i	
1982	Formulas.	1	
5364 1965-A	The Slide Rule (optional) Mechanical Principles do Elementary Principles of Electricity	1	
1965-B	do	i	
3117	Elementary Principles of Electricity	1	
2877 3135	HeatCombustion and Fuels	1	
3136	Principles of the Internal-Combustion Engine.	i	
3137-A	Combustion and Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines do High-Speed Diesel Engines do Marine Diesel Engines	1	
3137+B 3138-A	High-Speed Diesel Engines		
3138-B	dodo	i	
3145-A	Marine Diesel Engines	1	
3145-B 3139	Diesel Engine Details	1	
5179-A	Gas Engines	1	
5179-B	do	1	
5181 5180-A	Carburetors Electric Ignition Devices do	1	
5180-A 5180-B	do	1	
3140	Internal-Combustion Engine Auxiliaries and Installation Lubrication	1	
3141 3143	Management of Diesel Engines	1	
5182	Gas Engine Management	i	
3142	Internal-Combustion Engine Testing Diesel Engine Troubles and Remedies. Gas Engine Troubles and Remedies.	1	
3144 5183-A	Diesel Engine Troubles and Remedies	I	
5183-B	do	1	
5253	dodo Lubrication and Cooling Troubles and Remedies	ĺ	
	Final examination	1	
	Matal		
	Total.	37	\$18, 20
MRR	DIESEL ENGINES	37	\$18, 20 MRR
MRR		37	1
	DIESEL ENGINES	37	1
1975	DIESEL ENGINES	37	1
1975 1976 1977	DIESEL ENGINES	37 1 1 1	1
1975 1976 1977 1978	DIESEL ENGINES	I 1	1
1975 1976 1977	DIESEL ENGINES	I 1	1
1975 1976 1977 1978 1979 1980 1981	Arithmetic Fractions Decimals Weights and Measures. Ratio and Proportion Powers and Roots	I 1	1
1975 1976 1977 1978 1979 1980 1981 1982	Arithmetic Fractions Decimals Weights and Measures. Ratio and Proportion Powers and Roots	I 1	1
1975 1976 1977 1978 1979 1980 1981 1982 5364	Arithmetic. Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots. Mensuration. Formulas. The Slide Rule (optional)	I 1	1
1975 1976 1977 1978 1979 1980 1981 1982 5364 1965-A 1965-B	Arithmetic. Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots. Mensuration. Formulas. The Slide Rule (optional)	I 1	1
1975 1976 1977 1978 1979 1980 1981 1982 5384 1965-A 1965-B	Arithmetic. Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots. Mensuration. Formulas. The Slide Rule (optional)	I 1	1
1975 1976 1977 1978 1979 1980 1981 1982 5361 1965-A 1965-B 3147 2877	Arithmetic. Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots. Mensuration. Formulas. The Slide Rule (optional)	I 1	1
1975 1976 1977 1978 1978 1979 1980 1981 1982 5364 1965-A 1965-B 3147 2877 3135 3135	Arithmetic. Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots. Mensuration. Formulas. The Slide Rule (optional)	I 1	1
1975 1976 1977 1977 1978 1979 1980 1981 1982 5364 1965-A 1965-B 3147 2877 3135 3137-A	Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas The Slide Rule (optional) Mechanical Principles do Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines	I 1	1
1975 1976 1977 1978 1979 1980 1981 1982 5364 1965-A 1965-B 3177 2877 3135 3137-A 3137-B	Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas The Slide Rule (optional) Mechanical Principles do Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines	I 1	1
1975 1976 1977 1978 1979 1980 1981 1982 5364 1965-A 1965-B 3147 2877 3135 3137-A 3137-B 3138-A	Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas The Slide Rule (optional) Mechanical Principles do Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines	I 1	1
1975 1976 1977 1978 1979 1980 1981 1982 5364 1965-A 1965-B 3147 2877 3135-3 3137-A 3137-A 3138-A 3138-A 3145-A	Arithmetic. Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots. Mensuration Formulas. The Slide Rule (optional) Mechanical Principles do. Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines do. High-Speed Diesel Engines do. Marine Diesel Engines	I 1	1
1975 1976 1977 1978 1979 1980 1981 1982 5364 1965-B 3147 2877 2877 3135-3 3137-B 3138-A 3138-B 3145-B	Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas The Side Rule (optional) Mechanical Principles do Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines do High-Speed Diesel Engines do Marine Diesel Engines	I 1	1
1975 1976 1977 1978 1979 1980 1981 1982 5364 1965-A 3147 2877 3135 3137-B 3137-A 3137-A 3138-A 3145-A 3145-B 3145-B	Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas The S'ide Rule (optional) Mechanical Principles do Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines do Marine Diesel Engines do Marine Diesel Engines do Diesel Engine Details Internal-Combustion Engine Internal-Combustion Engine	I 1	1
1975 1976 1977 1978 1979 1980 1981 1982 5364 1965-A 1965-B 3137-A 3137-A 3137-B 3138-B 3145-A 3145-B 3139 3140 3141	Arithmetic Fractions Decimals Weights and Measures. Ratio and Proportion Powers and Roots Mensuration Formulas The Side Rule (optional) Mechanical Principles do Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine. Stationary Diesel Engines do High-Speed Diesel Engines do Marine Diesel Engines do Diesel Engine Details Internal-Combustion Engine Auxiliaries and Installation. Lubrication.	I 1	1
1975 1976 1977 1978 1979 1980 1981 1982 5364 1965-A 1965-B 3147 2877 3135-3 3137-A 3137-A 3137-B 3138-A 3145-B 3145-B 3149-B	Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas The Stide Rule (optional) Mechanical Principles do Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines do High-Speed Diesel Engines do Marine Diesel Engines do Diesel Engine Details Internal-Combustion Engine Auxiliaries and Installation Lubrication Electric [gnition and Starting (optional)	I 1	1
1975 1976 1977 1978 1979 1980 1981 1982 5364 1965-A 1965-B 3147 2877 3133-A 3137-A 3137-A 3138-B 3145-A 3145-A 3145-A 3145-B 3145-A 5180-A 5180-A	Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas The Side Rule (optional) Mechanical Principles do Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines do High-Speed Diesel Engines do Marine Diesel Engines do Diesel Engine Details Internal-Combustion Engine Auxiliaries and Installation Lubrication Electric Ignition and Starting (optional) do Unternal-Combustion Engine Testing	I 1	1
1975 1976 1977 1978 1979 1980 1981 1982 5361 1965-A 1965-B 3147 2877 3135 3136 3137-A 3137-B 3138-B 3145-A 3138-B 3145-B 3145-B 3159-B 3145-B 3159-B 3140 3141 5180-B 3142	Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas The Side Rule (optional) Mechanical Principles do Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines do High-Speed Diesel Engines do Marine Diesel Engines do Diesel Engine Details Internal-Combustion Engine Auxiliaries and Installation Lubrication Electric Ignition and Starting (optional) do Unternal-Combustion Engine Testing	I 1	1
1975 1976 1977 1978 1978 1979 1980 1981 1982 5364 1965-A 1965-B 3147 2877 3135-5 3137-A 3137-B 3138-A 3137-B 3145-B 3145-A 3145-B 3145-A	Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas The Side Rule (optional) Mechanical Principles do Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines do High-Speed Diesel Engines do Marine Diesel Engines do Diesel Engine Details Internal-Combustion Engine Auxiliaries and Installation Lubrication Electric Ignition and Starting (optional) do Unternal-Combustion Engine Testing	I 1	1
1975 1976 1977 1978 1979 1980 1981 1982 5361 1965-A 1965-B 3147 2877 3135 3136 3137-A 3137-B 3138-B 3145-A 3138-B 3145-B 3145-B 3159-B 3145-B 3159-B 3140 3141 5180-B 3142	Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion Powers and Roots. Mensuration. Formulas The S'ide Rule (optional) Mechanical Principles do Elementary Principles of Electricity Heat Combustion of Fuels Principles of the Internal-Combustion Engine Stationary Diesel Engines do High-Speed Diesel Engines do Omarine Diesel Engines do Diesel Engine Details Internal-Combustion Engine Auxiliaries and Installation Lubrication. Electric Ignition and Starting (optional)		1
1975 1976 1977 1978 1978 1979 1980 1981 1982 5364 1965-A 1965-B 3147 2877 3135-5 3137-A 3137-B 3138-A 3137-B 3145-B 3145-A 3145-B 3145-A	Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas The S'lide Rule (optional) Mechanical Principles do Dissel Engine Bengines Diesel Engines Diesel Engines Diesel Engition and Starting (optional) Lubrication Electric Ignition and Starting Management of Diesel Engines Diesel Engine Troubles and Remedies Lubrication and Remedies Lubrication and Remedies Lubrication and Remedies Lubrication and Remedies		1

No.	Title	Lessons	Price
1975	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Formulas (optional) Measuring Instruments Elementary Chemistry Metallurgy of Iron Metallurgy of Steel Metallurgy of Steel Metallurgy of Steel Gas Welding Equipment Gas Welding of Carbon Steels Gas Welding of Cast Iron and Alloy Steels Gas Welding of Pipe Gas Welding of Nonferrous Metals and Ougelaying	1	
1976	Fractions	î	
1977	Decimals	î	
1978	Weights and Measures	î	
1979	Ratio and Proportion	i	
1980	Powers and Roots	Î	
1981	Mensuration	1	
1982	Formulas (optional)	1	
2209	Measuring Instruments	Ţ	
2202	Elementary Chemistry	1	
5110	Metallurgy of Iron	1	
5111	Metallurgy of Steel.	1	
2333	Metallurgy of Nonferrous Metals and Fuels	1	
2344	Elements of Metallography (optional)	1	
5153	Gas Welding Equipment	1	
5154	Gas Weiding of Carbon Steels	1	
5155	Gas Welding of Cast Iron and Alloy Steels	I	
5156	Gas Cutting	1	
5157	Gas Welding of Marfarana Matalana d Organian	1	
5158	Gas Welding of Nonierrous Metals and Overlaying	1	
5159 5247	Floatnioity for Woldon	1	ļ
	And Wolding Fluid and A	1	
5248	Are Welding of Low Corbon Stools	I	
49-A 19-B	do	I	
5250	Are Wolding of Alloy Stools and Irons	I	
5251	Are Welding of Manforrous Motels and Overlaving	1	
5252	Pacieta nea Wolding	1	
5160	Increation and Testing of Wolds	1	
2207	Ganeral Appliances and Processes (antional)	1	
2239	Florants of Blueprint Deeding (optional)	1	
2=00	Gas Cutting. Gas Welding of Pipe. Gas Welding of Nonferrous Metals and Overlaying. Gas Welding Examples. Electricity for Welders. Arc Welding Equipment Arc Welding of Low Carbon Steels. do Arc Welding of Alloy Steels and Irons. Arc Welding of Alloy Steels and Irons. Arc Welding of Nonferrous Metals and Overlaying. Resistance Welding. Inspection and Testing of Welds. General Appliances and Processes (optional). Elements of Blueprint Reading (optional). Final examination.	1	
	Total	32	\$12
Β	AVIATION MECHANICS		мтв
1975		1	мтв
1975		I I	мтв
1975 1976 1977		1 1 1	МТВ
1975 1976 1977 1978		1 1 1 1	MTH
1975 1976 1977 1978 1979		î	
1975 1976 1977 1978 1979 1980		î	
1975 1976 1977 1978 1979 1980 1981		1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982		1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982 55-A		1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982 35-A 35-B		1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982 55-A 65-B 2877		1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982 65-A 65-B 2877 3135		1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982 65-A 65-B 2877 3135 3136		1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982 65-A 65-B 2877 3135 3136 63-A		1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982 65-A 65-B 2877 3136 63-A 63-B	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.	1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982 665-A 965-B 2877 3135 3136 (63-A (63-A (63-A	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.	1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982 65-A 665-B 2877 3135 3136 63-A 63-B 63-C 5164	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.	1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982 65-A 65-B 2877 3136 63-A 63-B 63-B 63-C 5164 3147	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.	1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982 065-A 065-B 2877 3135 3136 63-A 63-A 63-B 63-C 5164 3147 2522	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.	1 1 1	
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 3136 163-A 163-B 163-C 5164	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.		
1975 1976 1977 1978 1980 1981 1982 965-A 965-B 2877 3135 3136 163-B 163-C 5164 3147 2522 2523 2524 2525	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.		
1975 1976 1977 1978 1980 1981 1982 265-A 965-A 3135 3135 3135 3147 2523 2524 2523 2524 2524 2524 2524 2524	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.		
1975 1976 1977 1978 1980 1981 1982 265-A 3135 3135 3135 3135 3135 3147 2522 2523 2524 2524 2525 310-A	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.		
1975 1976 1977 1978 1979 1980 1981 1982 065-A 065-B 2877 3135 3136 (63-A (63-B (63-C 2522 2523 2524 310-A 310-A 310-B	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.		
1975 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 2877 3135 3136 163-B 163-C 5164-A 2522 2523 3147 2524 2525 310-A 310-B 5311-B 5311-B	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.		
1975 1976 1976 1978 1979 1980 1981 1982 965-B 2877 3135 3135 3135 3135 3135 3145 2524 2523 2524 310-A 310-A 310-B 5311 5312 5312	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.		
1975 1976 1976 1978 1978 1980 1981 1982 965-B 2877 3135 3136 163-C 257 3136 163-B 163-C 2522 2523 2524 2525 310-A 310-B 5311 5312 5313	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.		
1975 1976 1976 1978 1979 1980 1981 1980 1981 1980 1981 1980 1981 163-A 163-B 163-A 252 2523 2523 2523 310-B 5311 5313 5313 5313 5313 5313	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.		
1975 1976 1977 1977 1978 1979 1980 1981 1982 965-A 3135 663-A 3136-A 3147 2522 2523 2524 2525 3130-A 3110-B 3110-B 3115-B 3115-B	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.		
1975 1976 1976 1978 1979 1980 1981 1982 965-B 2877 2135 3135 3135 3163-A 163-C 5164 3147 2522 2523 2524 2525 310-A 310-B 5311 5312 5313 5314 315-A	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.		
1975 1976 1976 1977 1978 1979 1980 1981 1982 965-A 965-B 965-B 163-B 1163-B 1163-B 1163-C 5164 2522 2524 2524 2524 310-B 310-B 3115-3 315-3 315-3 315-3 315-3 315-3	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.		
1975 1976 1977 1978 1979 1980 1981 1981 1982 965-A 3135-A 3136-A 3147 2522 2523 310-A 310-B 3310-A 3315-A 5311 5313-5313-5315-B	Elements of Arithmetic Fractions. Docimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do Aviation Engine Carburetors Elementary Principles of Electricity Aviation Engine Accessories Aviation Engine Management Aviation En		
1975 1976 1976 1977 1978 1980 1981 1982 965-A 965-A 965-A 3135 3135 3163-B 2577 3147 2522 2523 310-A 310-A 3115-311 5311 5314 315-B 5315-B 5316-B 5317 318-B	Elements of Arithmetic Fractions. Docimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do Aviation Engine Carburetors Elementary Principles of Electricity Aviation Engine Accessories Aviation Engine Management Aviation En		
1975 1976 1977 1978 1979 1980 1981 1982 2877 3135 3135 3135 3135 3163-A 5163-A 5163-A 5163-C 5164 3147 2522 2523 310-A 310-B 5311 5312 5313 5314 315-A 315-A 315-A 315-B 5316 5316 5316 5318-A	Elements of Arithmetic Fractions. Docimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do Aviation Engine Carburetors Elementary Principles of Electricity Aviation Engine Accessories Aviation Engine Management Aviation En		
1975 1976 1977 1978 1979 1980 1981 1982 1965-B 2877 3135 3136 3163-A 5163-A 5163-A 5163-C 5164 2522 2523 2524 2525 310-A 3110-B 5311 5311 5311 5315-B 5315-B 5317 3318-B	Elements of Arithmetic Fractions. Docimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas Mechanical Principles do Heat Combustion and Fuels Principles of the Internal Combustion Engine Aviation Engines do Aviation Engine Carburetors Elementary Principles of Electricity Aviation Engine Accessories Aviation Engine Management Aviation En		
1976 1977 1978 1979 1980 1981 1982 1965-B 2877 3135 3136 3136 3136-A 3147 2522 2523 2524 2523 310-B 5310-B 5311-A 3315-A 3315-B 5317 3315-B 5317 3315-B	Elements of Arithmetic Fractions. Decimals Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration Formulas. Mechanical Principles. do. Heat. Combustion and Fuels Principles of the Internal Combustion Engine. Aviation Engines.		

No.	Title	Lessons	Price
1075	Elements of Arithmetic		
1975 1976	Fractions	1	
1977	Decimals	1	
1978 1979	Weights and Measures	1	
1980	Ratio and Proportion Powers and Roots	1	
1981	Mensuration	î	
1982 1965–A	Formulas Mechanical Principles do	1	
1965-B	dodo	1	
2877	Heat. Combustion and Fuels Principles of the Internal Combustion Engine	ĩ	
3135	Combustion and Fuels	1	
3136 5163-A	A viation Engines	1	
5163-B	A viation Enginesdo	i	
5163-C	Asiation Physics Continued and	1	
5164 3147	Elementary Principles of Electricity	1	
2522	Aviation Engine Ignition, Lubrication and Cooling	î	
2523	do do Aviation Engine Carburetors. Elementary Principles of Electricity. Aviation Engine Ignition, Lubrication and Cooling Aviation Engine Accessories. Aviation Engine Management Aviation Engine Maintenance The Slide Rule (optional).	1	
2524 2525	Aviation Engine Management	1	
5364	The Slide Rule (optional)	1	
	Final examination	1	
	Total	24	\$9.55
) (Vett		ψυ. συ
MTC	AIRPLANE MAINTENANCE		MTC
1975	Elements of Arithmetic	1	
1976 1977	Fractions Decimals	1	
1978	Decimals Weights and Measures Ratio and Proportion Powers and Roots	1	
1979	Ratio and Proportion.	1	
1980 1981	Powers and Koots	1	
1982	Mensuration Formulas Mechanical Principles	Ĩ	
1965-A	Mechanical Principles	1	
1965–B 5310–A	The Airplane and Its Parts	1	
5310-B	do	î	
5311	do. Elementary Aeronautical Engineering Woodworking Tools.	1	
5312	Woodworking Tools	1	
5313 5314	Metalworking Tools Aircraft Woodwork	1	
5315-A	Aircraft Metalwork	1	
5315-B	do	1	
5316 5317	Covering and Doning Airplane Surfaces	1	
5318-A	Protection of Airplane Parts Covering and Doping Airplane Surfaces Airplane Instruments and Accessories	î	
5318-B	(10	1	
2530	Airplane Maintenanee The Slide Rule (optional) Final examination	1	
5364	Final examination	1	
	Total	25	\$9.45
EAV	ELEMENTARY ELECTRICAL ENGINEERING		EAV
	1		
1975	Elements of Arithmetic	1	
1976	Fractions. Decimals	1	
1977 1978	Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration	1	
1979	Ratio and Proportion	1	
1980	Powers and Roots.	2	
1981 1982	Formulas_	1	
1984	Trigonometry and Graphs		
1621	Mechanics and Machine Elements	- 1	
2700-A 2700-B	Electricity and Magnetism.	2	
2700-15	Theory and Construction of Direct Current Motors and Generators	i	
2715	Characteristics of Direct Current Motors and Generators	1	
2704-A	Alternating Currents.		
2704-B 5292	Alternators	1	
5229-A	Transformers	1	
5229-B	Transformersdo.		
5229-C 5219	do Alternating Current Motors	1	
5219	Authating Current Motors		

EAV	ELEMENTARY ELECTRICAL ENGINEERING—Continued		
No.	Title	Lessons	Price
5228	Synchronous Converters and AC. Rectifiers.	1	
2714	Industrial Motor Applications. Electrical Measuring Devices.	1	
2369	Electrical Measuring Devices	1	
5360-A 5360-B	do	1 1	
5286	Electric Illuminants Theory of Industrial Electronic Tubes Electron Tubes and Their Industrial Applications	1	
5226 2746	Theory of Industrial Electronic Tubes Flectron Tubes and Their Industrial Applications	I 1	
5365-A	Electric Heating	I	
5365-B	do.	1	
2365 2366	Direct Current Armature Repair	1	
2742-A	Field Coil and Brush Maintenance Care and Repair of Fractional Horsepower Motors	Ī	
2742-B	do	I	
3226 2368-A	Rewinding and Reconnecting of Fractional Horsepower Motors Alternating Current Motor Repairs	1 1	
2368-B	do	1	
3225	do	1	
	Final examination	1	
	Total	40	\$17. 5
EAT	ELECTRIC-MOTOR REPAIRMEN		EAT
#000	P. Lead III de la		
5230 2364	Fundamental Electrical Instruction Direct Current Motors and Generators	1	
2367	Direct Current Motors and Generators Alternating Current Generators, Transformers, and Motors		
2369	Electrical Measuring Devices Direct Current Armature Repair	1	
2365	Direct Current Armature Repair	1	
2366 2742-A	Field Coil and Brush Maintenance Care and Repair of Fractional Horsepower Motors.	1	
2742-B	do	1	
3226 2368-A	Rewinding and Reconnecting Fractional Horsepower Motors	1	
2368-B	do	1 1	
3225	do	1	
3225	Rewinding and Reconnecting Industion Motors Final examination	1	
3225	Rewinding and Reconnecting Industion Motors Final examination Total		\$5. 7
EBF	Final examination	13	\$5. 7 EBF
EBF Articles of	Total ELECTRICAL OPERATING ENGINEERS drawing equipment may be obtained from the Institute at a cost of approx	1 13 ximately \$	\$5. 7 EBF
EBF Articles of	ELECTRICAL OPERATING ENGINEERS drawing equipment may be obtained from the Institute at a cost of approx Elements of Arithmetic	1 13 ximately \$	\$5. 7 EBF 6.66]
EBF Articles of 1975 1976 1977	ELECTRICAL OPERATING ENGINEERS drawing equipment may be obtained from the Institute at a cost of approx Elements of Arithmetic. Fractions. Decimals	1 13 ximately \$	\$5.7 EBF 6.66]
EBF Articles of 1975 1976 1977 1978	ELECTRICAL OPERATING ENGINEERS drawing equipment may be obtained from the Institute at a cost of approx Elements of Arithmetic. Fractions Decimals. Weights and Measures. Ratio and Proportion	1 13 ximately \$	\$5. 7 EBF 6.66]
1975 1976 1977 1978 1979 1980	ELECTRICAL OPERATING ENGINEERS drawing equipment may be obtained from the Institute at a cost of approx Elements of Arithmetic. Fractions. Decimals. Weights and Measures Ratio and Proportion. Powers and Roots.	1 13 ximately \$ 1 1 1 1 1	\$5.7 EBF 6.66]
1975 1976 1977 1978 1979 1980 1981	ELECTRICAL OPERATING ENGINEERS drawing equipment may be obtained from the Institute at a cost of approx Elements of Arithmetic. Fractions Decimals. Weights and Measures Ratio and Proportion Powers and Roots. Mensuration. Fermulas	1 13 ximately \$	\$5.7 EBF 6.66]
EBF Articles of 1975 1976 1977 1978 1979 1980 1981 1982 1984	ELECTRICAL OPERATING ENGINEERS drawing equipment may be obtained from the Institute at a cost of approx Elements of Arithmetic. Fractions Decimals. Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration. Formulas Formulas Formulas Tripoperative and Groups	1 13 ximately \$ 1 1 1 1 1 1 1 1	\$5.7 EBF 6.66]
EBF Articles of 1975 1976 1977 1978 1979 1980 1981 1982 1994 5364 5364 5364 1984	ELECTRICAL OPERATING ENGINEERS drawing equipment may be obtained from the Institute at a cost of approx Elements of Arithmetic. Fractions Decimals. Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration. Formulas Formulas Formulas Tripoperative and Groups	1 13 xximately \$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$5.7 EBF 6.66]
EBF Articles of 1975 1976 1977 1978 1979 1980 1981 1982 1984	ELECTRICAL OPERATING ENGINEERS drawing equipment may be obtained from the Institute at a cost of approx Elements of Arithmetic. Fractions Decimals. Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration. Formulas Formulas Formulas Tripoperative and Groups	1 13 ximately \$ 1 1 1 1 1 1 1 1 1	\$5.7 EBF 6.66]
EBF Articles of 1975 1976 1977 1978 1979 1980 1981 1982 1984 1621 2700-A 2700-A	ELECTRICAL OPERATING ENGINEERS drawing equipment may be obtained from the Institute at a cost of approx Elements of Arithmetic. Fractions Decimals. Weights and Measures. Ratio and Proportion Powers and Roots. Mensuration Formulas. Trigonometry and Graphs The Slide Rule (optional) Mechanics and Machine Elements Electricity and Magnetism.	1 13 ximately \$ 1 1 1 1 1 1	\$5.7 EBF 6.66]
EBF Articles of 1975 1976 1977 1978 1979 1980 1981 1982 1984 19364 1621 2700-A 2700-B 2716	ELECTRICAL OPERATING ENGINEERS drawing equipment may be obtained from the Institute at a cost of approx Elements of Arithmetic. Fractions Decimals. Weights and Measures. Ratio and Proportion Powers and Roots. Mensuration Formulas. Trigonometry and Graphs The Slide Rule (optional) Mechanics and Machine Elements Electricity and Magnetism.	1 13 xvimately \$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$5.7 EBF 6.66]
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EBF Articles of 1975 1976 1977 1978 1979 1980 1981 1982 1984 1621 2700-A 2700-B 2716 2715 2704-A 2	ELECTRICAL OPERATING ENGINEERS drawing equipment may be obtained from the Institute at a cost of approx Elements of Arithmetic. Fractions. Decimals. Weights and Measures Ratio and Proportion Powers and Roots. Mensuration Formulas. Trigonometry and Graphs. The Slide Rule (optional) Mechanics and Machine Elements Electricity and Magnetism. do. Theory and Construction of DC. Motors and Generators. Characteristics of Direct Current Motors and Generators. Alternating Currents. do. Alternators. Transformers.	1 13 ximately \$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$5.7 EBF 6.66]
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EBF Articles of 1975 1976 1977 1978 1979 1980 1981 1982 1984 2700-B 2715 2701-A 2700-B 5229-B 5229-B 5229-C 5219	ELECTRICAL OPERATING ENGINEERS drawing equipment may be obtained from the Institute at a cost of approx Elements of Arithmetic. Fractions. Decimals. Weights and Measures Ratio and Proportion Powers and Roots. Mensuration Formulas. Trigonometry and Graphs. The Slide Rule (optional). Mechanics and Machine Elements. Electricity and Magnetismdo. Theory and Construction of DC. Motors and Generators. Characteristics of Direct Current Motors and Generators. Alternating Currentsdo. Alternators. Transformersdo. Alternators. Transformersdo.	1 13 ximately \$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$5.7 EBF 6.66]
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EBF Articles of 1975 1976 1977 1978 1979 1980 1981 1982 1984 2700-B 2716 2704-B 5299-A 5299-C 5219-B 5228-A 2721-B 2721-B 2721-B 2721-B 2722-B 272-B 2722-B 272-B 272-B 272-B 2722-B 272-B 272-B 272-B 272-B 272-B 272-B 272-B 272-B 272-B 272-	ELECTRICAL OPERATING ENGINEERS drawing equipment may be obtained from the Institute at a cost of approx Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuration. Formulas. Trigonometry and Graphs. The Slide Rule (optional). Mechanics and Machine Elements. Electricity and Magnetismdo. Theory and Construction of DC. Motors and Generators. Characteristics of Direct Current Motors and Generators. Alternating Currentsdo. Alternators. Transformersdo. do. do. do. Alternating Current Motors Synchronous Converters and AC. Rectifiers Industrial Motor Applications. Electrical Measuring Instrumentsdo. Practical Electrical Measurements	1 13 ximately \$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$5.7 EBF 6.66]
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EBF Articles of 1975 1976 1977 1978 1979 1980 1981 1982 1984 1621 2700-B 2716 2716 2704-A 2704-A 2704-A 2704-A 2704-B 5229-A 5229-A 5229-A 5229-A 5228 2721-B 2721-B 2722-5293-A 5233-B 5229-A 5233-B 5229-A 5233-B 5229-A 5233-B 5229-A 5233-B 5223-A 5233-B 5233-B	ELECTRICAL OPERATING ENGINEERS I drawing equipment may be obtained from the Institute at a cost of approx Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuration. Formulas. Trigonometry and Graphs. The Slide Rule (optional). Mechanics and Machine Elements. Electricity and Magnetismdo. Theory and Construction of DC. Motors and Generators. Characteristics of Direct Current Motors and Generators. Alternating Currentsdo. Alternators. Transformersdo. Alternating Current Motors. Synchronous Converters and AC. Rectifiers. Industrial Motor Applications. Electrical Measuring Instrumentsdo. Oractical Electrical Measurements Watthour Metersdo. Oractical Electrical Measurements Watthour Metersdo. do.	1 13 ximately \$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$5.7 EBF 6.66]
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EBF Articles of 1976 1976 1977 1978 1980 1981 1982 1984 2700-B 2716 2704-A 2704-B 5229-B 5229-C 5219 5229-C 5219 5229-C 3210-C	ELECTRICAL OPERATING ENGINEERS drawing equipment may be obtained from the Institute at a cost of approx Elements of Arithmetic. Fractions. Decimals. Weights and Measures Ratio and Proportion. Powers and Roots. Mensuration. Formulas. The Slide Rule (optional). Mechanics and Machine Elements. Electricity and Magnetism. do. Theory and Construction of DC. Motors and Generators. Characteristics of Direct Current Motors and Generators. Alternating Currents. do. Alternators. Transformers. do. Alternating Current Motors Synchronous Converters and AC. Rectifiers Industrial Motor Applications. Electrical Measuring Instruments. do. Practical Electrical Measurements. Watthour Meters. do. do. Characteristics Measurements. Watthour Meters. do. Lectrical Measuring Instruments. do. Lectrical Measuring Instruments. do. Lectrical Measurements. Watthour Meters. do. Lectrical Illuminats	1	\$5.7 EBF 6.66]
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EBF

No.	Title	Lessons	Price
2746	Electron Tubes and their Industrial Applications	1	
5365-A 5365-B	Electric Heating	1	
2741	Electric Furnaces	1	
2202 3223	Electric Furnaces Elementary Chemistry Electroplating Local Distribution of Electrical Energy	1	
5189	Local Distribution of Electrical Energy	I 1	
5254	Logarithms. Elements of Algebrado	I	
4073-A 4073-B	Elements of Algebra	1 1	
4073-B	do	1	
5202	do Complex Quantities in AC. Calculations	I 1	
5217 5190	Long Distance Transmission of Electrical Energy	I.	
2729-A	Practical Electric Wiring	î	
2729-B 2729-C	do	1	
5227	Farm Wiring for Light and Power	1	
3319	Antenna and Receiver Installations	1	
$\frac{5186}{2747}$	Protective Relays and Their Applications	1	
3220	Design of Magnets and Electromagnets	1	
5294 5287	Voltage Regulation of Alternating Current Circuits	1	
5288	Electric Substations	Ī	
5267-A	Operation of Electrical Machinery	1	
5267-B 5267-C	do	1	
2717	Efficiency Tests	î	
1965-A	Mechanical Principles (optional)	1	
1965-B 994	Materials of Construction	1	
2877	Heat	1	
2878	Steam (Accompanied by Feenan's Steam Tables)	1	
2833	Types of Steam Boilers	1	
2315	Steam Turbines	1	
3224-A 3224-B	Steam Electric Power Stationsdo	1 I	
3222-A	Hydroelectric Power Stations.	1	
3222-B 2900-A	Woter Turbines	I 1	
2900-A 2900-B	do	î	
2900-C	do	1 6	
2923 2924	Elements of Projection Drawing (optional)	4	
1946	Mechanical Drawing (optional)	7	
	Final examination	1	
	do Complex Quantities in AC. Calculations Line Calculations Long Distance Transmission of Electrical Energy Practical Electric Wiring do do do Farm Wiring for Light and Power Antenna and Receiver Installations Switchgear Protective Relays and Their Applications Design of Magnets and Electromagnets Voltage Regulation of Alternating Current Circuits Electric Stations Electric Substations Operation of Electrical Machinery do do Efficiency Tests Mechanical Principles (optional) do Materials of Construction Heat Steam (Accompanied by Keenan's Steam Tables) Types of Steam Boilers Steam Electric Power Stations do Ilydroelectric Power Stations do User Turbines do Geometrical Drawing (optional) Elements of Projection Drawing (optional) Mechanical Drawing (optional) Elements of Projection Drawing (optional) Final examination	96	\$42. 20
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 200	GENERAL RADIO		EGC
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1975			EGC
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1975 1976 1977 1978 1979 1980 1981 4073-A 4073-B 4073-C 4073-D 1984			EGC
1975 1976 1977 1978 1979 1980 1981 4073-A 4073-B 4073-C 4073-D 1984 5254 5364			EGC
1975 1976 1977 1978 1979 1980 1981 4073-A 4073-B 4073-C 4073-D 1984 5254 5364 1621			EGC
1975 1976 1977 1978 1979 1980 1981 4073-A 4073-B 4073-C 4073-D 1984 5254 5254 5264 1621 2202 2700-A	Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion Powers and Roots. Mensuratiou. Elements of Algebra do do Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements Elementary Chemistry. Elementary Chemistry. Elementary Chemistry.		EGC
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5271	Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion Powers and Roots. Mensuratiou. Elements of Algebra do do Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements Elementary Chemistry. Elementary Chemistry. Elementary Chemistry.		
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2704-A 2704-B 5202	Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuratiou. Elements of Algebra. do. do. Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements. Elementary Chemistry. Electricity and Magnetism do DC. Calculations Alternating Currents. do Complex Quantities in AC. Calculations (optional).		
2704-A 2704-B 5202 3309	Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuratiou. Elements of Algebra. do. do. Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements. Elementary Chemistry. Electricity and Magnetism do DC. Calculations Alternating Currents. do Complex Quantities in AC. Calculations (optional).		
5271 2704-A 2704-B 5202 3309 2473 3501	Elements of Arithmetic. Fractions. Decimals Weights and Measures. Ratio and Proportion Powers and Roots. Mensuratiou. Elements of Algebra do do Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements Elementary Chemistry Electricity and Magnetism do D-C. Calculations Alternating Currents do Complex Quantities in AC. Calculations (optional) Sound and Acoustics Principles of Radio Communication Radio Tubes		
52/1 2704-A 2704-B 5202 3309 2473 3501 3501Z	Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuratiou. Elements of Algebra. do. do. Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements Elementary Chemistry. Eletricity and Magnetism do. DC. Calculations Alternating Currents. do. Complex Quantities in AC. Calculations (optional) Sound and Acoustics Principles of Radio Communication Radio Tubes Radio Tubes Radio Conbesson).		
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52/1 2704-A 2704-B 5202 3309 2473 3501 3501Z 3502	Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuratiou. Elements of Algebra. do. do. do. Trigonometry and Graphs. Logarithms The Slide Rule (optional) Mechanics and Machine Elements. Elementary Chemistry. Electricity and Magnetism. do. DC. Calculations Alternating Currents. do. Complex Quantities in AC. Calculations (optional). Sound and Acoustics Principles of Radio Communication Radio Tubes Radio Tubes Radio Tube Raceivers.		

No.	Title	Lessons	Pric
3506	Methods of Testing Vacuum Tubes	1	
3507	Principles of Vacuum Tube Design	Î	
3313	Batteries and Power Converters	î	
3314	Methods of Vacuum Tube Design Batteries and Power Converters Audio and Power Amplifiers Microphones and Loud Speakers Public Address and Centralized Radio Systems Sound Picture Recording Sound Picture Projection Tured Per Receivers	î	
3315	Microphones and Loud Speakers	î	
3327	Public Address and Centralized Radio Systems	î	
2492	Sound Picture Recording	î	
2493	Sound Picture Projection	Ī	
3316		1	
3317	Superheterodyne Receivers Short Wave and Long Wave Receivers Antenna and Receiver Installations	1	
3318	Short Wave and Long Wave Receivers	1	
3319	Antenna and Receiver Installations	1	
3320	Automobile Radio Installation Service. Electrical Measurements in Radio Servicing. Diagnosis of Receiver Troubles Voltage and Current Tests. Point to Point Resistance Tests.	1	
3321 3322	Electrical Measurements in Radio Servicing	1	
3322	Diagnosis of Receiver Troubles	1	
3323	Voltage and Current Tests	1	
3324	Point to Point Resistance Tests	1	
3325	Alliement of Tunesdance Fests Alliement of Tunesdance Circuits Cathode Ray Oscillograph in Radio Service Elimination of Radio Interference Theory and Construction of DC. Motors and Generators	1	
3329	Cathode Ray Oscillograph in Radio Service.	1	
3328	Elimination of Radio Interference.	1	
2716	Theory and Construction of DC. Motors and Generators	1	
5292	Atternaturs	1	
5229-A	Transformersdo	1	
5229-B	do	1	
5229-C	l do	1	
5219	Alternating-Current Motors	1	
5228	Synchronous Converters and AC. Rectifiers	1	
2721-A	Alternating-Current Motors Synchronous Converters and AC. Rectifiers Electrical Measuring Instruments	1	
2721-B	do Storage Batteries do Design of Transformers Design of Transformers Codes and Code Practice (optional)	1	
5360-A	Storage Batteries	1	
5360-B	do	1	
3220	Design of Magnets and Electromagnets	1	
2728	Design of Transformers	1	
2014	Ossign of Transformers Codes and Code Practice (optional) Radio Antennas. Undamped Wave Radio Communication Radio Telegraph Transmitters. do	1	
2474	Radio Antennas	1	
2018	Undamped Wave Radio Communication	1	
2489	Radio Telegraph Transmitters	1	
2490	Facsimile Transmission and Reception	1	
3549 3550-A 3550-B 3550-C	Principles of Television. ¹ Do. ¹ Do. ¹	1	
35-1	Police and Aviation Ground Station Transmitters	1	
35-2	Police and Aviation Ground Station Transmitters. Broadcast Transmitters. Radio Transmitters for Telephone and Telegraph. Wavemeters and Frequency Monitoring Units. Point to Point Communication. Geometrical Drawing. Elements of Projection Drawing. Mechanical Drawing Final examination.	1	
35-4	Radio Transmitters for Telephone and Telegraph	1	
21-1	Wavemeters and Frequency Monitoring Units	1	
32-1	Point to Point Communication	1	
2923	Geometrical Drawing	6	
2924	Elements of Projection Drawing	4	
1946	Mechanical Drawing	7	
	Final examination	1	
	Total.	90	\$31
EHX	PRACTICAL RADIO SERVICING		E
3301-2	Direct Current and Ohm's Law	1	
	Birect Current and Omin's Law		
3302-2	Direct Current Networks	1	
3303	Direct Current Networks. Magnetism and Electromagnetism	1 1	
3303X	Direct Current Networks Magnetism and Electromagnetism Radio Job Sheet (no lesson)	1	
3303 3303 X 3304	Direct Current Networks Magnetism and Electromagnetism Radio Job Sheet (no lesson) Theory of Alternating Currents	1 1	
3303 3303 X 3304 3305-2	Direct Current Networks Magnetism and Electromagnetism Radio Joh Sheet (no lesson) Theory of Alternating Currents Inductance and Capacity	1 1 1	
3303 3303 X 3304 3305-2 3306	Direct Current Networks. Magnetism and Electromagnetism Radio Job Sheet (no lesson). Theory of Alternating Currents. Inductance and Capacity. Resonant Electrical Circuits.	1 1 1 1 1	
3303 3303X 3304 3305-2 3306 3306X	Direct Current Networks Magnetism and Electromagnetism Radio Job Sheet (no lesson) Theory of Alternating Currents Inductance and Capacity Resonant Electrical Circuits Radio Job Sheet (no lesson)	1 1 1 1	
3303 3303 X 3304 3305-2 3306 3306 X 3307	Direct Current Networks Magnetism and Electromagnetism Radio Joh Sheet (no lesson) Theory of Alternating Currents Inductance and Capacity Resonant Electrical Circuits Radio Job Sheet (no lesson) Transformers in Radio Receivers	1 1 1 1 1	
3303 3303 X 3304 3305-2 3306 3306 X 3307 3308	Direct Current Networks Magnetism and Electromagnetism Radio Joh Sheet (no lesson) Theory of Alternating Currents Inductance and Capacity Resonant Electrical Circuits Radio Job Sheet (no lesson) Transformers in Radio Receivers	1 1 1 1 1	
3303 3303 X 3304 3305-2 3306 X 3306 X 3307 3308 3309	Direct Current Networks Magnetism and Electromagnetism Radio Joh Sheet (no lesson) Theory of Alternating Currents Inductance and Capacity Resonant Electrical Circuits Radio Job Sheet (no lesson) Transformers in Radio Receivers	1 1 1 1 1 1 1	
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3303 3303X 3304 3305-2 3306 3306X 3307 3308 3309 3309X 3310	Direct Current Networks Magnetism and Electromagnetism Radio Joh Sheet (no lesson) Theory of Alternating Currents Inductance and Capacity Resonant Electrical Circuits Radio Job Sheet (no lesson) Transformers in Radio Receivers	1 1 1 1 1 1	
3303 3303 X 3304 X 3305-2 3306 X 3307 3308 3309 X 3310 3311	Direct Current Networks Magnetism and Electromagnetism Radio Joh Sheet (no lesson) Theory of Alternating Currents Inductance and Capacity Resonant Electrical Circuits Radio Job Sheet (no lesson) Transformers in Radio Receivers	1 1 1 1 1 1 1	
3303 3303 X 3304 3305-2 3306 3306 X 3307 3308 3309 3309 X 3310 3311 3312	Direct Current Networks Magnetism and Electromagnetism Radio Joh Sheet (no lesson) Theory of Alternating Currents Inductance and Capacity Resonant Electrical Circuits Radio Job Sheet (no lesson) Transformers in Radio Receivers	1 1 1 1 1 1 1 1	
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3303 3303 X 3304 X 3306 Z 3306 X 3307 X 3308 3309 X 3310 3311 3312 X 3312 X 3313 X	Direct Current Networks Magnetism and Electromagnetism Radio Job Sheet (no lesson) Theory of Alternating Currents Inductance and Capacity Resonant Electrical Circuits Radio Job Sheet (no lesson) Transformers in Radio Receivers Motors and Generators Sound and Acoustics Radio Job Sheet (no lesson) Principles of Radio Transmission Theory of Radio Tubes Radio Receiving Systems Radio Job Sheet Radio Job Sheet Radio Tubes Radio Job Sheet Radio Tubes Radio Job Sheet Radio Job Sheet	1 1 1 1	
3303 3303X 3304 3305-2 3306 3306X 3307 3308 3309 3309X 3310 3311 3312 3312X 3313 3313	Direct Current Networks Magnetism and Electromagnetism Radio Job Sheet (no lesson) Theory of Alternating Currents Inductance and Capacity Resonant Electrical Circuits Radio Job Sheet (no lesson) Transformers in Radio Receivers Motors and Generators Sound and Acoustics Radio Job Sheet (no lesson) Principles of Radio Transmission Theory of Radio Tubes Radio Receiving Systems Radio Job Sheet Radio Job Sheet Radio Tubes Radio Job Sheet Radio Tubes Radio Job Sheet Radio Job Sheet	1 1 1 1 1	
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3303 3303 X 3304 3305-2 3306 3306 X 3307 3309 3309 X 3311 3312 3312X 3313 3314 3315 3314	Direct Current Networks Magnetism and Electromagnetism Radio Job Sheet (no lesson) Theory of Alternating Currents Inductance and Capacity Resonant Electrical Circuits Radio Job Sheet (no lesson) Transformers in Radio Receivers Motors and Generators Sound and Acoustics Radio Job Sheet (no lesson) Principles of Radio Transmission Theory of Radio Tubes Radio Receiving Systems Radio Job Sheet Radio Job Sheet Radio Tubes Radio Job Sheet Radio Tubes Radio Job Sheet Radio Job Sheet	1 1 1 1 1 1 1 1	
3303 3303X 3304 3305-2 3306 3306X 3307 3309 3309X 3311 3312 3312X 3313 3314 3314 3313	Direct Current Networks Magnetism and Electromagnetism Radio Joh Sheet (no lesson) Theory of Alternating Currents Inductance and Capacity Resonant Electrical Circuits Radio Job Sheet (no lesson) Transformers in Radio Receivers	1 1 1 1 1 1 1 1	

¹ In preparation.

27111	THE TOTAL PROPERTY OF THE COMMISSION		4,74116
No.	Title	Lessons	Price
3319	Antenna and Receiver Installations	1	
2729-A	Practical Electric Wiring	i	
2729-B	do	î	
3320	Automobile Radio Installation and Service	1	
3321	Electrical Measurements in Radio Servicing Diagnosis of Receiver Troubles	1	
3322 3323	Voltage and Current Tests	1	
3324	Voltage and Current Tests Point-to-Point Resistance Tests	i	
3325	Alinement of Tuned Circuits	î	
3329	Cathode Ray Oscillograph in Radio Service	1	
3549 3326	Facsimile Transmission and Reception	1	
3327	Radio Sales and Advertising	1	
3328	Public Address and Centralized Radio Systems	i	
3550-A	Principles of Television ² do. ² do. ² do. ² do. ² .	1	
3550-B	do.²	1	
3550-C	Timelinstitut	1	
	Final examination	1	
	Total	36	\$11.09
SDZ [Articles	${\bf SHORT\ MECHANICAL\ DRAWING}$ of drawing equipment may be obtained from the Institute at a cost of approx	ximately \$	SDZ 6.66]
2923	Geometric Drawing	6	ļ
2923	Elements of Projection Drawing (5 plates of elementary geometrical fig-	Ü	
2021	Elements of Projection Drawing (5 plates of elementary geometrical fig- ures for which no sample plates are furnished and the following 4 plates		
	for which sample plates are furnished)	4	
	200–2 Projections—I. 201–2 Projections—II.		
	201-2 Projections—III. 202-2 Capie Sections—III		
	202-2 Conic Sections—III. 203-2 Intersections and Developments—IV.		
1946	Mechanical Drawing (7 plates) 637 Common Conventions (1001). 638 Simple Machine Details (1002).	7	
	637 Common Conventions (1001).		
	638 Simple Machine Details (1002).		
	639 Fastenings (1003). 640 Helical Forms (1004).		
	641 Pulley and Coupling (1005).		
	641 Pulley and Coupling (1005). 642 Gear Connecting Rod and Piston (1006).		
	643 Knife Switch, Assembly and Details (1007).		
2249	Machine Sketching	1	
	Total	18	\$2,90
	1 U-at	10	φ2.00
			24777
MIII	READING SHOP BLUEPRINTS		MIH
1975	Elements of Arithmetic	1	
1976	Fractions	1	
1977 1978	Weights and Measures	i	
2239	Elements of Blueprint Reading	î	
2240-A	Reading Shop Blueprints	1	
2240-B	Decimals Weights and Measures Elements of Blueprint Reading Reading Shop Blueprints	1	
2240-C 2240-D	do	1 1	
2240-D	(Accompanied by Form 3028 Illustrations for Reading Shon Bluenrints at 4)	1	
2249	Machine Sketching	1	
2209	Measuring Instruments (optional)	1	
2206	Precision Measuring Instruments (optional)	1	
994 2202	Materials of Construction (optional)	1	
2202	Final examination	1	
	Total	15	\$5.45

² In preparation.

GRADE-SCHOOL SUBJECTS

[A student may enroll in as many subjects as he desires, but in order to receive a diploma he must complete $5\ \mathrm{subjects}]$

No.	Title	Lessons	Price
1956-A	Spelling SPELLING	4	
1956-B	Spelling Striction do	4	
	Total	8	\$1.35
1975	Elements of Arithmetic		
1976	Elements of Arithmetic Fractions	1	
1977 1978	Decimals	I 1	
1979	Weights and Measures Ratio and Proportion	Ĩ	
1980 1981	Powers and Roots	1	
1986-A	Commercial Calculations	1	
1986-B	do	1	
	Total	9	2, 70
	CIVICS (AMERICAN GOVERNMENT)		
BV 2940-A-L	American Government (Magruder) American Government	12	
			0.00
	Total.	12	2,00
DV	GEOGRAPHY		
BV 2935-A-N	Human Geography (J. Russell Smith) Geography	14	
	Total .	14	2. 22
3077-A	GRAMMAR, ENGLISH English Grammar	1	
3077-B 3077-C	dodo	1	
3077-D	do	Ī	
3077-D 3077-E 3077-F	do do	1 1	
3077-G 3077-H	do do do	1	
3077-I	do	1	
3077-J 3079	do	1	
3079 3078-A	Capitalization and Punctuation Elements of English Composition	1	
3078-B	do	1	
3078-C	do	1	
	Total	14	4. 10
	HISTORY, AMERICAN		
BV 3101	History of the American People (Muzzey).		
3102-A-N	Manual of Suggestions American History	14	
	Total	14	2. 50
	LETTER WRITING		
3080-A 3080-B	Letter Writing	1	
3080-C	do	1	
3080-D 3080-E	do_	1 1	
3080-F	do	1	
1912 1913	Indexing Filing	1	
	Total	8	2. 30
	PHYSIOLOGY AND HEALTH		
BV	Healthful Living (Williams)		
2936-A-L	Physiology and Health	12	
	Total	12	1.80

HIGH-SCHOOL SUBJECTS

WI

 $[A\ student\ may\ enroll\ in\ as\ many\ subjects\ as\ he\ desires,\ but\ in\ order\ to\ receive\ a\ diploma\ he\ must\ complete\ 5\ subjects]$

No.	Title	Lessons	Price
4073-A	Flowerts of Algebra	1	
4073-B	Elements of Algebrado	1 1	
4073-C 4073-D	do	1	
379-A	Algebra	1	
379-B 379-C	do	1	
379-D	do	î	
379-E 379-F	dododo. Graphs (for reference only).	1	
379-G	do	î	
2938 379-H	Algebra	1	
379-I	do	1	
379-J		1	
	Total	14	\$3.95
	COMPOSITION AND RHETORIC		
BV 3081	Composition and Rhetoric (Tanner) Composition and Rhetoric	14	
	Total.	14	I. 52
	ECONOMICS		
BV	Fundamentals of Economies (Hughes)		
2939-A-J	Economics (Highes)	10	
	Total	10	1. 97
	GEOGRAPHY, PHYSICAL		
BV 2937-A-O	New Physical Geography (Tarr and Von Engeln) Physical Geography	15	
2937=A-O	Total.	15	2. 55
	GEOMETRY, PLANE		
BV	Plane Geometry (Wentworth and Smith)		
2190	Plane Geometry	6	
	Total	6	1. 25
	GEOMETRY, SOLID		
BV 2190	Solid Geometry (Wentworth and Smith) Solid Geometry	4	
	Total.	4	I. 25
	HISTORY, ANCIENT		
BV	History of Europe, Ancient and Medieval (Robinson and Breasted)	8	
3090	Ancient History Total	8	1.72
			1.72
	HISTORY, MEDIEVAL		
BV 3091	History of Europe, Ancient and Medieval (Robinson and Breasted) Medieval History	8	
	Total	8	1. 72
	HISTORY, MODERN EUROPEAN		
BV 3092	Modern History (Hayes and Moon) Modern European History	13	
0092	Total.	13	2. 20
	1 Vitil		

No.	Title	Lessons	Price
	PHYSICS		
BV	Practical Physics (Black and Davis)		
1807	Physics	11	
	Total	11	\$1.8
	PHYSIOLOGY AND HEALTH		
BV 2936-A-L	Healthful Living (Williams) Physiology and Health	12	
2000 12 23	Total	12	1, 8
	TRIGONOMETRY, PLANE		
BV			
883	Plane Trigonometry (Wentworth)	7	
	Total Final examination.	7	1. 1
вүн	GOOD ENGLISH		вүн
BV	Winston Simplified Dictionary		
1920-A 1920-B	Good Englishdo	1	
1920-B 1920-C	do	1	
1920-D	do	1	
1920–E 1920–F	do	1	
1920-F	do	1	
1920-II	do	1	
1920-I 1920-J	do	1	
1920-J 1920-K	do	1	
1920-L	do	1	
1920-M 1920-N	do	1	
1920-IN 1920-O	do	1	
	Final examination	1	
	Total	16	\$5. 7
INX	HIGH-SCHOOL MATHEMATICS		INX
		1	
1975 1976	Elements of Arithmetic Fractions	1	
1975 1976 1977	Elements of Arithmetic		
1975 1976 1977 1978	Elements of Arithmetic. Fractions Decimals Weights and Measures	1	
1975 1976 1977 1978 1979 1980	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots	1	
1975 1976 1977 1978 1979 1980 1981	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration	1	
1975 1976 1977 1978 1979 1980 1981 1986-A	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations	1	
1975 1976 1977 1978 1979 1980 1981 1986-A 1986-B 4073-A	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations - do - Elements of Algebra	1	
1975 1976 1977 1978 1979 1980 1981 1986-A 1986-B 4073-A 4073-B	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do Elements of Algebra	1	
1975 1976 1977 1978 1979 1980 1981 1986-A 1986-B 4073-A 4073-B 4073-C	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do Elements of Algebra do do	1	
1975 1976 1977 1978 1979 1980 1981 1986-A 1986-A 4073-B 4073-B 4073-C 4073-D 379-A	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do Elements of Algebra do Algebra	1	
1975 1976 1977 1978 1979 1980 1981 1986-A 1986-B 4073-A 4073-B 4073-C 4073-D 379-A 379-B	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do Elements of Algebra do do Algebra do Algebra do Algebra	1	
1975 1976 1977 1978 1979 1980 1986-A 1986-A 1986-B 4073-A 4073-B 4073-C 379-A 379-A 379-B	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculationsdo Elements of Algebrado do Algebrado do do do do do do d	1	
1975 1976 1977 1978 1979 1980 1981 1986-A 1986-A 4073-C 4073-C 4073-D 379-A 379-A 379-D 379-D 379-D	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do Elements of Algebra do do do do do do Algebra do	1	
1975 1976 1977 1978 1979 1980 1981 1986-B 4073-B 4073-B 379-C 379-B 379-C 379-D 379-E	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do Elements of Algebra do do do do do do Algebra do	1	
1975 1976 1977 1978 1979 1980 1986-B 4073-B 4073-B 4073-B 379-A 379-A 379-C 379-D 379-F 379-F	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do Elements of Algebra do	1	
1975 1976 1977 1978 1979 1980 1980 1986-B 4073-B 4073-B 4073-B 379-A 379-A 379-B 379-E 379-F 379-F 379-H 2938	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do Go Go Go Graphs (for reference only)		
1975 1976 1977 1978 1979 1980 1986-B 4073-A 4073-B 4073-C 4073-D 379-A 379-B 379-F 379-F 379-F 379-F 379-H 2938	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do Elements of Algebra do do do do do do do Algebra do do do Graphs (for reference only) Algebra		
1975 1976 1977 1978 1979 1980 1980 1986-B 4073-B 4073-B 4073-B 379-A 379-A 379-B 379-E 379-F 379-F 379-H 2938	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do do do Algebra do do do do do do Graphs (for reference only) Algebra do Grapha (for reference only) Algebra do do Generation do		
1975 1976 1977 1978 1979 1980 1981 1986-A 4073-B 4073-B 4073-B 379-B 379-B 379-C 379-B 379-G 379-G 379-G 379-I 379	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do do do Algebra do do do do do do Graphs (for reference only) Algebra do Grapha (for reference only) Algebra do do Generation do		
1975 1976 1977 1978 1980 1980 1980 1986-B 4073-A 4073-B 4073-C 379-A 379-A 379-E 379-F 379-F 379-I	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do do do Algebra do do do do do do Graphs (for reference only) Algebra do Grapha (for reference only) Algebra do do Generation do		
1975 1976 1977 1978 1979 1980 1980 1986-B 4073-A 4073-B 4073-B 379-A 379-B 379-B 379-F 379-F 379-F 379-I 2938 379-I 2938 379-I BV BV 2190 BV	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do do do Algebra do do do do do do Graphs (for reference only) Algebra do Grapha (for reference only) Algebra do do Generation do		
1975 1976 1977 1978 1980 1980 1980 1986-B 4073-A 4073-B 4073-C 379-A 379-A 379-E 379-F 379-F 379-I	Elements of Arithmetic Fractions Decimals Weights and Measures Ratio and Proportion Powers and Roots Mensuration Commercial Calculations do Elements of Algebra do		
1975 1976 1977 1978 1979 1980 1980 1986-B 4073-A 4073-B 4073-B 379-A 379-B 379-B 379-F 379-F 379-F 379-I 2938 379-I 2938 379-I BV BV 2190 BV	Elements of Arithmetic. Fractions. Decimals. Weights and Measures. Ratio and Proportion. Powers and Roots. Mensuration Commercial Calculationsdo. Elements of Algebrado. Plane Geometry (Wentworth and Smith) Solid Geometry (Wentworth and Smith) Plane Trigonometry (question paper) Plane Trigonometry (question paper)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

MARITIME SERVICE COURSES 3

No.	Title	Lessons	Price
	Seamanship	2	\$3.75 1.35 2.75 1.00

 $^{^3}$ Diploma will be issued only on completion of combined course in Seamanship, Ship Construction, and Maritime Law.

UNIVERSITY OF FLORIDA 3 1262 08484 2326